

DATASHEET

CD123 Mouse Monoclonal Antibody (ARM588)

CAT. NO. ARM6878

KEY FEATURES

Target	CD123	Clone ID	ARM588
Source / Host	Mouse	Reactivity	Human
Applications	IHC	Dilution	1:50-1:200
Clonality	Monoclonal	Storage	-20°C

BACKGROUND

Cluster of Differentiation 123 (CD123), also known as Interleukin-3 Receptor, plays an important role in regulating the immune system by transmitting interleukin-3 signals, thereby promoting proliferation and differentiation of hematopoietic stem cells. Studies suggest that the expression of CD123 is observed in most Acute Myeloid Leukemia (AML) subtypes, including leukemic stem cells. CD123 positive AML has demonstrated higher marrow blast percentages and monocytic differentiation, and clinical presentations for AML mostly include bone marrow involvement and regional lymphadenopathy. As there are overlapping clinical presentations between AML and blastic NK-cell lymphomas, differential diagnosis is important; use of a panel of CD123, CD4, CD56, and TCL-1 can help with this distinguishment between AML and myeloid involvement from blastic NK-cell lymphomas.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

Application	IHC
Dilution Ratio	1:50-1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Antibody Type	Primary antibodies
Isotype	IgG1
Positive Control	Blastic Plasmacytoid, Dendritic Cell Neoplasm
Localization	Cytoplasmic, Membranous
Form / Buffer	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide
Purification	Purified
Conjugation	Unconjugated
Gene Symbol	IL3RA
Entrez Gene ID	3563
Uniprot	P26951
Alternative Names	IL3R; Interleukin-3 receptor subunit alpha; IL-3 receptor subunit alpha; IL-3R subunit alpha; IL-3R-alpha; IL-3RA; CD antigen CD123

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

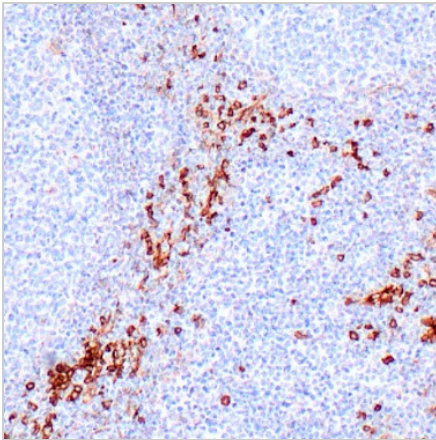
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

DATA

Immunohistochemical staining of human tonsil tissue sections using CD123 Mouse Monoclonal Antibody (ARM588).

RESEARCH USE ONLY

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: [www.arexbio.com / cd123-mouse-monoclonal-antibody-arm588-arm6878](http://www.arexbio.com/cd123-mouse-monoclonal-antibody-arm588-arm6878)